

CLAIMS

1. A process for preparing particles for supporting a surfactant comprising
burkeite, comprising the step of spray-drying a preparation liquid comprising an
5 acrylic polymer, sodium carbonate and sodium sulfate, wherein the acrylic
polymer has a weight-average molecular weight of 3000 to 100000, and wherein
acrylic polymer has a size distribution, as determined by light scattering
determination, such that a particle size of a larger particle size side at which a
height of a peak corresponding to a particle size range covering a particle size of
10 10 nm attenuates to a half of a maximum value is 32 nm or less, and that a
proportion of particles having a particle size exceeding 800 nm is 70% or less.
2. The process for preparing particles for supporting a surfactant according
to claim 1, wherein the acrylic polymer has a calcium ion capturing ability of
15 160 mg CaCO_3/g or more, and a stability constant to calcium ions of 2.6 or more.
3. The process for preparing particles for supporting a surfactant according
to claim 1 or 2, wherein the particles for supporting a surfactant have a
composition in that the acrylic polymer is contained in an amount of from 5 to
20 30% by weight, that a total content of the sodium carbonate and sodium sulfate,
as expressed by a weight ratio to the polymer content, of from 19/1 to 1/2, and
that sodium carbonate and sodium sulfate are contained in a weight ratio of 1/10
to 10/1.
- 25 4. The process for preparing particles for supporting a surfactant according

to any one of claims 1 to 3, wherein the acrylic polymer formulated in the preparation liquid is in a form of an aqueous solution having a quinone content of 6 ppm or less.

5 5. Particles for supporting a surfactant obtainable by the process of any one of claims 1 to 4, wherein the particles for supporting a surfactant have a mode diameter of a microporous capacity distribution of 1.5 μm or less as determined by mercury porosimeter for one having a micropore diameter of from 0.01 to 3 μm , a microporous capacity of 0.3 mL/g or more for one having a micropore diameter of from 0.01 to 3 μm , and a particle strength of from 15 MPa or more.

10 6. Particles for supporting a surfactant comprising burkeite, wherein an acrylic polymer is contained in an amount of 5 to 30% by weight, wherein the acrylic polymer has a weight-average molecular weight of 3000 to 100000, and wherein acrylic polymer has a size distribution, as determined by light scattering determination, such that a particle size of a larger particle size side at which a height of a peak corresponding to a particle size range covering a particle size of 10 nm attenuates to a half of a maximum value is 32 nm or less, and that a proportion of particles having a particle size exceeding 800 nm is 70% or less, and wherein sodium carbonate and sodium sulfate are contained in a weight ratio of from 1/10 to 10/1, and wherein a total content of the sodium carbonate and sodium sulfate, as expressed by a weight ratio to the polymer content, of from 19/1 to 1/2.

25 7. The particles for supporting a surfactant according to claim 6, wherein the

acrylic polymer has a calcium ion capturing ability of 160 mg CaCO_3/g or more, and a stability constant to calcium ions of 2.6 or more.

8. Detergent particles comprising 10 to 100 parts by weight of a surfactant composition based on 100 parts by weight of particles for supporting a surfactant of any one of claims 5 to 7, wherein the surfactant composition is supported by the particles for supporting a surfactant.

9. A detergent composition having an average particle size of 150 to 500 μm and a bulk density of from 500 to 1000 g/L, comprising the detergent particles of claim 8 in an amount of 50 to 100% by weight.